



# SPYWOLF

## Security Audit Report



Completed on  
**May 8, 2023**

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# OVERVIEW

This audit has been prepared for **MINIPEPE** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





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# MINI PEPE



## PROJECT DESCRIPTION

### According to their whitepaper:

"Introducing MiniPepe – the newest addition to the world of meme tokens. Inspired by the success of PEPE, we aim to bring the same level of excitement and profits to the meme token community. As we are currently in the midst of the meme season, with Pepe being the most hyped meme of the year, we believe that the timing couldn't be more perfect for the launch of MiniPepe."

**Release Date:** Presale starts in May, 2023

**Category:** Meme token



# CONTRACT INFO

Token Name

MINI PEPE

Symbol

miniPEPE

Contract Address

0x638890fF8E002Be3a5be782F417beBda4D47fd62

Network

Binance Smart Chain

Language

Solidity

Deployment Date

May 07, 2023

Verified?

Yes

Total Supply

420,000,000,000,000

Status

Not launched

## TAXES

Buy Tax  
**none**

Sell Tax  
**none**

\*Taxes can be changed in future



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# CURRENT STATS

(As of May 08, 2023)



Liquidity

Not added yet



Burn

No burnt tokens

Status:  
**Not Launched!**

MaxTxAmount  
12,600,000,000,000

DEX:  
PancakeSwap

LP Address(es)

Liquidity not added yet



# TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	4200000000000000 miniPEPE
Median Transfer Amount	4200000000000000 miniPEPE
Average Transfer Amount	4200000000000000 miniPEPE
First transfer date	2023-05-07
Last transfer date	2023-05-07
Days token transferred	1

# SMART CONTRACT STATS

Calls Count	2
External calls	2
Internal calls	0
Transactions count	2
Uniq Callers	1
Days contract called	1
Last transaction time	2023-05-07 19:50:29 UTC
Created	2023-05-07 19:50:05 UTC
Create TX	0x99156c8ecfd67d593375599ee7a9b314b2509f241c1d412fb608a7b170e6eb39
Creator	0x0a37c68cd6cef8e7815e61b5af7f020779140f1f





# VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed





# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

---

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

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Issues on this level are minor details and warning that can remain unfixed.

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



# FOUND THREATS

## ⚠ Medium Risk

**Owner can set protections contract once, before trading is enabled.**

Owner can set anti bots criteria in the protections contract.

The protections external contract is used to perform checks on regular users with each token buy/sell/transfer.

If protections contract is inappropriate one, unexcluded users from limitations won't be able to buy/sell the token.

**The protections contract that perform these checks is not in the scope of the current audit.**

```
function setInitializer(address initializer) external onlyOwner {
    require(!tradingEnabled);
    require(initializer != address(this), "Can't be self.");
    protections = Protections(initializer);
}

function setProtectionSettings(bool _antiSnipe, bool _antiBlock) external onlyOwner {
    protections.setProtections(_antiSnipe, _antiBlock);
}

function finalizeTransfer(address from, address to, uint256 amount,
bool buy, bool sell, bool other) internal returns (bool) {
    if (_hasLimits(from, to)) { bool checked;
        try protections.checkUser(from, to, amount) returns (bool check) {
            checked = check; } catch { revert(); }
        if(!checked) { revert(); }
    }
    .....
}
```



## Informational

**Owner can exclude address from fees, max transaction and max wallet limits.** Such limits won't apply on excluded addresses.

```
function setExcludedFromLimits(address account, bool enabled) external onlyOwner {
    _isExcludedFromLimits[account] = enabled;
}

function setExcludedFromProtection(address account, bool enabled) external onlyOwner {

}

function setExcludedFromFees(address account, bool enabled) public onlyOwner {
    _isExcludedFromFees[account] = enabled;
}
```

**Owner can set max wallet size but cannot lower it more than 1% of total supply.** This is the maximum amount of tokens which single address can hold.

```
function setMaxWalletSize(uint256 percent, uint256 divisor) external onlyOwner {
    require((_tTotal * percent) / divisor >= (_tTotal / 100),
        "Max Wallet amt must be above 1% of total supply.");
    _maxWalletSize = (_tTotal * percent) / divisor;
}
```

**Owner can change max transaction limit but it cannot be set below 0.5% of total supply.**

```
function setMaxTxPercent(uint256 percent, uint256 divisor) external onlyOwner {
    require((_tTotal * percent) / divisor >= (_tTotal * 5 / 1000),
        "Max Transaction amt must be above 0.5% of total supply.");
    _maxTxAmount = (_tTotal * percent) / divisor;
}
```



## Informational

**Owner can set buy/sell/transfer fees up to 10%.**

Combined buy+sell = 20%.

When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make. Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
uint256 constant public maxBuyTaxes = 1000;
uint256 constant public maxSellTaxes = 1000;
uint256 constant public maxTransferTaxes = 1000;
uint256 constant masterTaxDivisor = 10000;

function setTaxes(uint16 buyFee, uint16 sellFee, uint16 transferFee) external onlyOwner {
    require(!taxesAreLocked, "Taxes are locked.");
    require(buyFee <= maxBuyTaxes
        && sellFee <= maxSellTaxes
        && transferFee <= maxTransferTaxes,
        "Cannot exceed maximums.");
    _taxRates.buyFee = buyFee;
    _taxRates.sellFee = sellFee;
    _taxRates.transferFee = transferFee;
}
```

**Owner can withdraw any tokens from the contract until liquidity is added.** Once liquidity is added, the owner can withdraw any tokens from the contract with exception of the native blockchain token (ETH/BNB) and the native contract token (PEPC).

```
function sweepContingency() external onlyOwner {
    require(!_hasLiqBeenAdded, "Cannot call after liquidity.");
    payable(_owner).transfer(address(this).balance);
}

function sweepExternalTokens(address token) external onlyOwner {
    if (_hasLiqBeenAdded) {
        require(token != address(this), "Cannot sweep native tokens.");
    }
    IERC20 TOKEN = IERC20(token);
    TOKEN.transfer(_owner, TOKEN.balanceOf(address(this)));
}
```



RECOMMENDATIONS FOR

# GOOD PRACTICES

---

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

## PEPE CHAIN

### GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner can set a transaction limit, but can't lower it than 0.5% of total supply



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

# ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 500 SUCCESSFUL CLIENTS
- ✓ MORE THAN 1000 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.